

The main aim of this work is to summarize the basic knowledge of method which is using Green's functions for solving boundary value problems for linear differential equations. These functions will be defined and, with some not very strong presumptions, uniquely constructed. This method is primarily derived for solving problems with homogenous boundary conditions. However it will be shown that there is no more presumptions needed to use this method to solve problems with non-homogenous linear boundary conditions. As a main consequence of preceding existence and uniqueness of solution for relatively wide class of linear boundary problems will be provided.